

GIN'KO, G.M., kand. tekhn. nauk.

Brief report on the work of the All-Union Scientific Research  
Institute of Farm Mechanization. Dokl. Akad. sel'khoz. 22  
no.10:43-46 '57. (MIRA 10:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii  
sel'skogo khozyaystva. Predstavlena akademikom M.V. Sablikovym.  
(Farm mechanization)

GINKO, O.M.

Attachement to the KKH-4,2 cultivator-fertilizer spreader for the  
application of herbicides. Biul. tekhn.-ekon. inform. no.4:65-67  
'58. (MIRA 11:6)

(Cultivators) (Fertilizer spreaders) (Herbicides)

GIN'KO, G.M.

Shellers for threshing seed corn ears. Biul.tekh.-skon.inform.  
no.6:57 '58. (MIRA 11:8)  
(Threshing machines)

GIN'KO, G.M., kand. tekhn. nauk

Development of Academician V.P. Goriachkin's theory of the  
threshing-machine cylinder. Dokl. Akad. sel'khoz. 23 no. 6:43-  
48 '53. (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii  
sel'skogo khozyaystva. Predstavlena akademikom V.A.Zheligovskim.  
(Threshing machines)

USSR/Electricity  
Hydroelectric Plants

Jul 48

"Review of 'Small Hydroelectric Power Plants of the  
Karelian Isthmus' A. A. Korolev," S. S. Ginko, Cand  
Tech Sci, 3/4 p

"Gidrotekh Stroi" No 7

In spite of several defects, book contains much  
useful data. Published by Gosenergoizdat, Lenin-  
grad-Moscow, 1947, 4,000 copies.

15/49T46

GINKO, S.S.; STRELKOVSKIY, S.A.

[Rural hydroelectric power stations] Sel'skie gidroelektrostan-  
tsii. Moskva, Gos. izd-vo selkhoz lit-ry, 1953. 139 p. (MLRA 7:6)  
(Hydroelectric power stations)

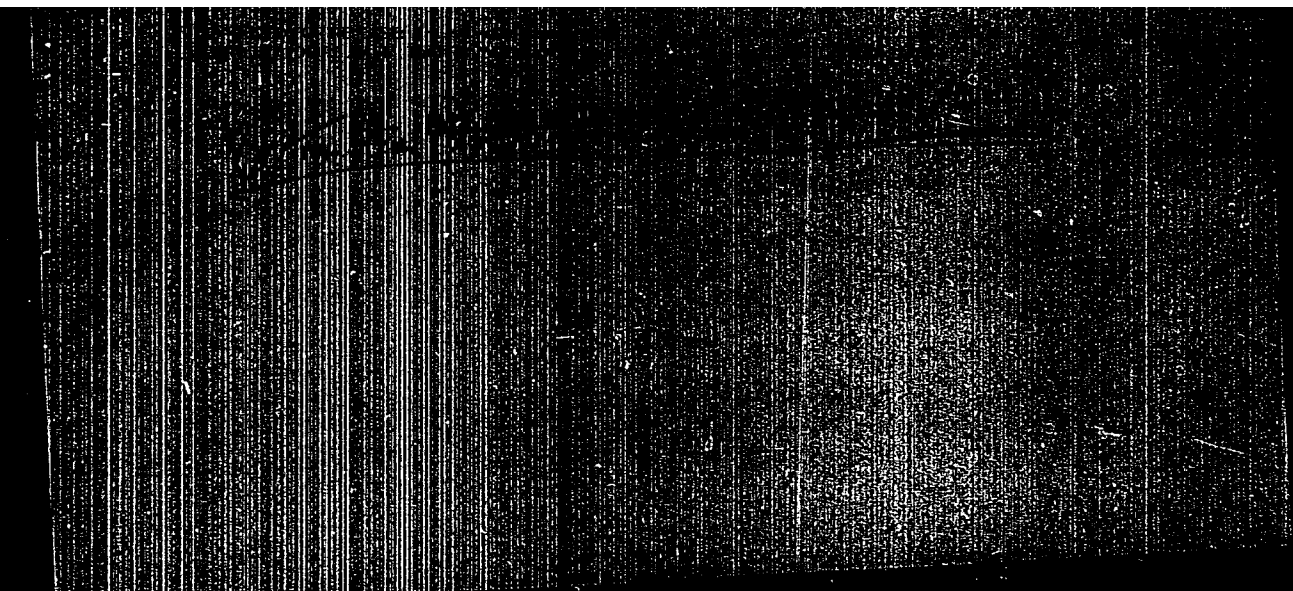
GIMKO, Sergey Sergeyevich; KHASHCHINSKIY, V.P., professor, redaktor;  
CHAPSKIY, P.D., redaktor; VODOLAGINA, S.D., tekhnicheskiy redaktor.

[Research and surveying for the construction of rural hydro-  
electric power stations] Obsledovaniia i izyskanii dlia stroi-  
tel'stva sel'skikh GKS. Pod red. V.P. Khashchinskogo. Moskva,  
Gos.izd-vo sel'khoz. lit-ry, 1955. 178 p. [Microfilm] (MLRA 8:9)  
(Hydroelectric power stations)

GINKO, Sergey Sergeyevich; ZVORYKIN, K.A., redaktor; SHATILINA, M.K.,  
redaktor; FLAUM, M.Ya., tekhnicheskii redaktor.

[Water power resources of the U.S.S.R.; their investigation  
and utilization] Vodnoenergeticheskie bogatstva SSSR; ikh izu-  
chenie i ispol'zovanie. Leningrad, Gidrometeoreologicheskoe izd-  
vo, 1955. 195 p. (Hydroelectric power) (MLRA 9:6)





14(6): 8(6)

PHASE I BOOK EXPLOITATION

SOV/2877

Ginko, Sergey Sergeyevich

Osnovy gidrotekhniki (Principles of Hydraulic Engineering)  
Leningrad, Gidrometeoizdat, 1958. 302 p. Errata slip inserted.  
5,000 copies printed.

Resp. Ed.: K. Ye. Ivanov; Ed.: M. K. Shatilina; Tech. Ed.: M. Ya  
Flaum.

**PURPOSE:** This book is intended for hydrologists, hydraulic  
engineers, and construction engineers. It may serve as a text-  
book on hydraulic engineering.

**COVERAGE:** The book treats various hydraulic engineering problems.  
River transport and navigation, water power installations,  
irrigation projects, water supply, sewerage, installations in the  
fishing industry, bridge construction, and general hydrologic  
questions are discussed. The author thanks hydraulic engineer  
K. Ye. Ivanov, Doctor of Geographical Sciences, and A. A. Gromova,  
instructor at the Khar'kov Hydrometeorological Tekhnikum. He

Card 1/9

Principles of Hydraulic (Cont.)

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further thanks S. V. Nerpin, Doctor of Technical Sciences, for the use of materials incorporated in the text. There are 13 Soviet references.

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AVAILABLE: Library of Congress (TC145.G5)	

~~GINKO, Tadeusz~~

Intraarterial blood transfusion in cases of shock. Polski tygod.  
lek. 10 no.5:137-141 1 Feb 55.

1. Z I. klin. chirurg. Sl. A.M.w Zabrze; kier. prof. dr. med.  
J.Gasinski.

(BLOOD TRANSFUSION, administration  
intra-arterial in shock)

(SHOCK, therapy  
blood transfusion, intra-arterial)

POLAND/Human and Animal Physiology. Blood.

V

Abs Jour: Ref Zhur-Biol., No 6, 1958, 26788.

Author : Tadeusz Ginko

Inst : ~~Polish Academy of Sciences~~

Title : The Saturation of Preserved Blood With Oxygen.

Orig Pub: Polski tygodn. lekar., 1955, 10, No 7, 197-199.

Abstract: An apparatus for saturating blood with  $O_2$  is described. Saturation for a 30 minute period increased the content of  $HbO_2$  in preserved blood up to 90-98% of the total Hb content. Until 39 days from the moment the blood was taken, the capacity of the Hb to combine with  $O_2$  did not diminish. The  $O_2$  content of oxygenated blood remained for a period of 10 days at a level corresponding to the  $O_2$  content of

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POLAND/Human and Animal Physiology. Blood.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 26788,

arterial blood. Such preserved oxygenated blood  
is employed in grave postoperative states and in  
shock.

Card : 2/2

USSR/Human and Animal Physiology. Blood.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 26792.

the period following the transfusion. The childrens' weights increased considerably more rapidly than before the transfusion, and in a number of cases weight recovery began only after the transfusion. The general condition of the child improved, its motor activity increased, as did the strength of the sucking reflex. Among infants with pulmonary atelectasis, decrease and cessation of attacks of asphyxia were observed. Electroencephalographi examination of all of the children showed an increase in the tonus of the cortex, augmentation of its bioelectric activity and the appearance of slow waves, all of which attest to an improved clinical conditon. The author recommends the introduction of the method

Card : 2/3

FRCZKOWSKIA, Marian; GINKO, Tadeusz; PAWLIK, Alfred

Lytic cocktail in post-traumatic shock. Polski tygod. lek. 14 no.7:  
303-306 16 Feb 59.

1. Z II Kliniki Chirurgicznej Sl. Akademii Medycznej; kierownik: prof.  
dr Josef Gasinski. Adres: Zabrze, ul. 3 maja 13, II Kl. Chir. Sl. A.W.  
(HIBERNATION, ARTIFICIAL, in various dis.  
post-traum. shock (Pol))  
(SHOCK, ther.  
artif. hibernation in post-traum. shock (Pol))

.....GINKO, Tadeusz: WOLANSKI, Adam

Unusual complication during the course of acute pancreatitis. Polski  
tygod. lek. 14 no.32:1490-1492 10 Aug 59.

1. (Z II Kliniki Chirurgicznej Sl. A. M; kierownik - prof. dr J.  
Gasinski i z I Kliniki Chorob Wewnetrznych Sl. A. M.: kierownik -  
prof. dr J. Japa).

(PANCREATITIS, compl.)



GINKO, Tadeusz; ADAMCZYK, Roman; SADLINSKI, Czeslaw; ORLOW, Tadeusz;  
HROCZECHA, Maciej

Homo- and heteroplasty of the aorta by means of experimental  
lyophilized grafts. Polski przegl.chir. 31 no.11:1169-1175  
N '59.

1. Z II Kliniki Chirurgicznej Sl. A. M. w Zabrze Kierownik:  
prof. dr J. Gasinski.  
(AORTA transpl)

GINKO, Tadeusz; TOBIK, Stanislaw

ACTH in the local treatment of burns. Polski tygod. lek. 16 no.21:  
811-813 22 My '61.

1. Z Instytutu Medycyny Pracy w Przemysle Węglowym i Hutniczym  
w Zabrsu-Rokitnicy; dyrektor: prof. dr Brunon Nowakowski i z II  
Kliniki Chirurgicznej Sl. A.M.; kierownik: prof. dr Jozef Gasinski.

(CORTICOTROPIN ther)    (BURNS ther)

SADLINSKI, Czeslaw; GINKO, Tadeusz; ORLOW, Tadeusz; MADEJSKI, Tadeusz;  
ADAMCZYK, Roman

Obstruction of the great vessels treated with an alloplasty prosthesis. Polski prześl. chir. 33 no.2:113-118 '61.

1. Z II Kliniki Chirurgicznej Sl. AM w Zabrze Kierownik: prof.  
dr J. Gasinski.

(BLOOD VESSELS surg)

GASINSKI, Jozef; GINKO, Tadeusz

Cancer of the stomach. Polski przegl. chir. 33 no.7/9:704-705.'61.

i. Z II Kliniki Chirurgicznej Sl. AM w Zabrze Kierownik: prof. dr.  
J. Gasinski.

(STOMACH NEOPLASMS surg)

GINKO, Tadeusz; ORLOW, Tadeusz

ACTH and cortisone in the prevention of thyroid crisis.  
Polski przegl. chir. 35 no.9:933-934 '63.

1. Z II Kliniki Chirurgicznej Sl. AM w Zabrze. Kierownik:  
prof. dr. J.Gasinski.

\*

Intraperitoneal injection of hydrocortisone in a case of most severe traumatic shock. 1st. 100. 100. 100. 100. 100. 100.

1. Z Zakładu Chirurgicznej Szp. Akademickiej w Warszawie (kierownik: prof. dr Józef Gasiński).

ALAMKIEWICZ, Kazimierz; GINKO, Tadeusz; GRZBIELA, Jacek; WIERCICH, Mirosław

Substitution of ureteral defects with autologous ureteral grafts.  
Pol. przegl. chir. 36 no.4a:Suppl.:467-479 Ap '64.

1. Z II Kliniki Chirurgicznej Śląskiej Akademii Medycznej  
w Zabrze (Kierownik: prof. dr J. Gasinski) i z Zakładu  
Anatomii Patologicznej Śl. Akademii Medycznej w Zabrze  
(Kierownik: prof. dr W. Niepołomski).

GINKO, Wlodzimierz, mgr inz.

The House of the Technician in Lublin has eased the proper development of the activities of the scientific and technical associations. Przegl techn 85 no.28:4 12 J1'64.

1. Chairman of the Voivodeship Contacts Committee of the Central Technical Organization, Lublin.



ZOBOV, Ye.V.; SHCHELKUNOVA, M.S.; BABANOVA, Zh.I.; CHAPURIN, V.I.; SHEMELEVA, V.A.;  
DYUL'GER, T.B.; GINKU, A.I.

Anticorrosive coatings of the internal surfaces of tanks used for the  
storage and processing of wine and juices; preliminary report. Trudy  
MNIIPP 2:43-55 '62. (MIA 16:4)

(Wine and wine making--Equipment and supplies)  
(Corrosion and anticorrosives)

USSR/Cultivated Plants - Decorative.

M-8

Abs Jour : Ref Zhur - Biol., No 3, 1958, 11118

Author : Ginkul, S.G.  
Inst :  
Title : The Japanese Maple, *Acer palmatum* Thunb., Its Variants  
and Garden Forms.

Orig Pub : Izv. Batumsk. botan. sada. AN GruzSSR, 1956, No 7, 33-65

Abstract : A description (with illustrations) is given of 27 garden forms of the *Acer palmatum* Thunb. which is little known in the Soviet subtropics but which is exceptionally decorative because of its own peculiar coloration and the extraordinary dissection of its leaves. These forms reproduce vegetatively since the desired qualities are not always transmitted through seed reproduction. The garden forms of the Japanese maple are recommended for wide use in the garden-park plantations of the Black Sea coast of Georgia. These forms, which are cultivated in the

Card 1/2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 11118

ACCESSION NR: AP4000402

S/0294/63/001/001/0073/0084

AUTHORS: Kudryavtsev, Ye. M.; Ginnius, Ye. F.; Pechenov, A. N.;  
Sobolev, N. N.

TITLE: Determination of the matrix element in the dipole moment of  
electron transfers in the cyanogen violet spectrum. Part 1

SOURCE: Teplofizika vy\*sokikh temperatur, v. 1, no. 1, 1963, 73-84

TOPIC TAGS: cyanogen, carbon monoxide, nitrogen, shock wave, high  
temperature, radiative heat transfer, cyanogen spectrum, spectral  
line reversal, spectroscopy, supersonic aerodynamics, violet band,  
electron transfer, dipole moment, matrix element, absorption spec-  
trum, radiative heat exchange, heat exchange, heat transfer, shock  
wave heating, shock tube, violet band system, reflected shock wave

ABSTRACT: In view of the uncertainty in the value of  $|R_e|^2$  (the  
square of the electron transition dipole moment matrix element) for  
Card 1/4

ACCESSION NR: AP4000402

the violet cyanogen spectrum, and in view of a recent development of a new method for determining this quantity in the Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute, AN SSSR) by measuring the absorption of light in gas behind a reflected shock wave, new measurements of  $|R_e|^2$  have been set up by this method, with the CN radicals obtained by heating a mixture of CO and  $N_2$  by a reflected shock wave. It was established that by transmitting pulsed light through a mixture of CO and  $N_2$  heated to 5,000--7,000°K by the reflected shock wave, it is possible to register the absorption spectrum of the violet CN band system, and determine the value of  $|R_e|^2$  of this system. To choose the optimal experimental condition and to obtain the data necessary for the data reduction, the states of the CO and  $N_2$  mixture behind the reflected shock wave were calculated over a wide range of initial pressures (10--200 mm Hg) and of shock-wave velocities (2.0--5.6 km/sec). The temperature of the mixture

ACCESSION NR: AP4000402

was measured by a generalized method of inversion relative to the CN bands, which was also used to monitor the fact that the CN concentration is in equilibrium. The shock tube employed was described by the authors previously (Optika i spektroskopiya, v. 8, 585, 761, 1960). It is concluded that the most suitable conditions for the described experiment are those with  $T_5 \geq 4800^\circ\text{K}$  (i.e.,  $p_1 = 100, 50, 25$  mm Hg). The final results of the experiments will be reported in future articles. "In conclusion the authors are grateful to A. T. Matachun and L. L. Sabsovich for programming and solving the problem with the electronic computer, to A. A. Sapronov for developing the electronic apparatus, and to G. I. Dronova and I. M. Kholinov for help with the work." Orig. art. has: 9 figures, 2 formulas, and 1 table.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR  
(Physics Institute AN SSSR)

BLYUMBERG, I.B.; GINNO, N.A.

Study of ~~the~~ dependence of the nature of the kinetics of development on the duration of the process and on the thickness of the bordering layer. Trudy LIKI no.4:165-169 '56. (MLRA 10:5)

1.Kafedra obshchey fotografii i tekhnologii obrabotki kinofotomaterialov.

(Photography--Developing and developers)

GINODMAN, A.G.

Construction of conditional horizons in one of the regions in  
Bashkiria. Geofiz.razv. no.14:24-32 '63. (MIRA 17:3)

GINODMAN, A.G.

Study of salt domes in the Caspian Lowland using elongated hodographs  
of waves reflected from subsalt horizons. Razved. i prom. geofiz.  
no.47:18-23 '63. (MIRA 16:8)

(Caspian Lowland--Salt domes) (Seismic prospecting)



GINODMAN, A.G.; MIRONOVA, L.V.

Way of applying corrections to hodographs of reflected waves.

Razved. i prom. geofiz. no.47:42-45 '63.

(MIRA 16:8)

(Seismometry)

1. BINCZYK, B.M.
2. USSR (600)
4. Paperboard
7. Stakhanovite methods of work in enterprises of the Main Paper Box Industry. Buz. prom. 37, no. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Uncl.

*Ginodman, B.M.*  
**RAVVIN, S.D.; GINODMAN, B.M.**

Improving the organization of work norms and wages in municipal enterprises, Gor. khoz. Mosk. 32 no. 4:33-35 Ap '58. (MIRA 11:4)

1. Nachal'nik Otdela truda i zarplaty Gorodskoy planovoy komissi (for Ravvin). 2. Starshiy inzhener Otdela truda i zarplaty Gorodskoy planovoy komissii (for Ginodman).  
(Wages)

RAVVIN, S.M.; GINODMAN, B.M.

Precast concrete plants change to the seven-hour workday. Gor. khoz.  
Mosk. 32 no.11:7-9 N '58. (MIRA 11:11)

1. Nachal'nik otдела truda i zarplaty Gorplana Mosgorispolkoma (for Ravvin). 2. Starshiy inzhener otдела truda i zarplaty Gorplana Mosgorispolkoma (for Ginodman).  
(Hours of labor) (Moscow--Concrete plants)

RAVVIN, S.D.; GINODMAN, B.M.

Conversion to the seven-hour work day at machinery manufacturing and metalworking enterprises of the Executive Committee of the City of Moscow. Gor.khoz.Mosk. 33 no.11: 5-7 N '59. (MIRA 13:2)

1. Nachal'nik otdela truda i zarabotnoy platy Gorplana Mosgorispolkoma (for Ravvin). 2. Starshiy inzhener otdela truda i zarabotnoy platy Gorplana Mosgorispolkoma (for Ginodman).  
(Moscow--Hours of labor)

GINODMAN, B.M.

New wage specifications for automotive transportation workers. Gor.  
khoz. Mosk. 35 no.8:31-32 Ag '61. (MIRA 14:8)  
(Transportation, Automotive) (Wages)

Chemical

12

**Better extraction of willow bark** M. Chastuk and G. Gusevskii. *Vostochny Korkovod Prom. Torg.* 1930, 21 (1), 14 (1930). Comparative experiments on the extraction of willow bark were carried out according to the principle of uninterrupted circulation. Experiments were made with (1) pure Moscow tap water; (2) 1% sodium chloride solution; (3) the same water with the addition of 1.5% sodium sulfate; (4) the same water with the addition of 2% sodium sulfate. Apparatus and method are described, and results presented in tables and diagrams. The addition of sulfate to the extraction water increases the yield of tanning materials, which reaches a maximum with 2% sulfate.

M. G. Moore

ASAC-SCA METALLURGICAL LITERATURE CLASSIFICATION

100  
101

21

Preparing tanning solutions from pine bark extracts. G. M. Gendman. *Oxidantse*  
*Izkhodov: Koshvennoe Proizvodstvo* 1931, No. 1, 31-2. The yield of tanning sub-  
stances increases with increase in the temp., the max. being at 90° in the first diffuser  
and 120° at the last diffuser and at a pressure of 2-2.5 atm., though the amount of  
insol. matter reaches 6.8 g. per l. of ext. Rate in open diffusers at 80-85° yielded only  
74.5% of tannins. Addn. of  $\text{Na}_2\text{SO}_3$  or  $\text{NaHSO}_3$  gave an addnl. 15.4-15.8% and the  
quality of the extract was slightly superior. A high extn. temp., although causing a  
higher yield of insol. material, permits a more rapid pptn. of the latter. The yield of  
insol. material was 10% in 18 hrs. at room temp.; 8% on preliminary cooling to 8°.  
The yield of tannins in this case amounted to 1.15%. The ext. was cooled at 30-35°.  
The yield of tannins in this case amounted to 1.15%. The ext. from pine bark  
did not have satisfactory tanning properties without sulfitation. A. A. Bushling.

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(c) ext. of 20-24°Bé, (d) sulfitation of the ext. with a mixt. of sulfite (1.5%) and bisulfite (4% of the wt. of the liquid ext.) during 10 hrs., and (e) duration of treatment with the sulfite 4 hrs. at 95° and with bisulfite 6 hrs. at 80-85°. The diffuser liquor had the following av. characteristics: gravity 3.3-3.9°Bé., mol. matter 5.64-11.97, insol. matter 0.23-0.45, nonstaining substances 2.84-5.13 and tannides 2.70-3.84; the exts. had correspondingly 6.9-20.5, 14.22-38.14, 0.46-1.92, 7.34-17.71 and 6.98-21.41. The pine ext. had after sulfitation correspondingly 23.3-24.9, 39.15-39.66, 0.44-0.85, 19.80-19.81 and 10.34-19.08. Tanning with pine extracts. A. N. Mikhailov. *Ibid.* 67-72. In a lab. investigation pieces of leather were tanned with a mixt. of quebracho and oak ext. and with pine ext. The former yielded a completely tanned leather, while the latter produced a leather with black streaks which could not be removed in spite of a great variety of remedies applied. Histological examination in an attempt to find a method for vat tanning with pine. H. Kocharov. *Ibid.* 73-9.

After tanning with a quebracho-oak soln. the collagen fascicles are friable and appear to be distributed close to one another, while the fibrillation is clearly visible. After tanning with pine solns. there is observed an intensive pptn. of tannides; tanning is very superficial, the tannides do not penetrate and dark streaks are formed; the collagen fascicules are dry and fibrillation is absent; interfascicular spaces are seen. In the expts. with NaCl dark streaks are absent, but the tannides have almost no

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Literature review on the sulfonation of oak extracts  
G. M. Gindman. *Khimicheskaya Tekhnika*: Koshoburnov  
*Prilozhenie* 1932, No. 9, 22-6. - A bibliography of 20  
references. A. A. Roshchinskii

CA

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**Purification of burner gas and sulfur losses in the acid division of the Archangel combine.** G. M. Givolinan. *Russkaya Prom.* 21, No. 5/6, 20-4(1946). Lumps of S are burned in a rotary burner of 5 cu. m. capacity. Burner gases mixed with air are passed through a chamber for completion of the burning. The gases are then directed

through a refractory-lined water-sprayed scrubber, where they are cooled to 300-30°. Thence the gases pass through an acid proof, brick-lined tower, packed to 2/3 of its height with 100-mm. Raschig rings. In this tower, irrigated with circulating weak  $H_2SO_4$ , the gases are cooled to 30-5° or lower. Also in this tower the gas is freed of dust, 50.4% of its  $SO_2$  vapors, 50.4% of its  $As_2O_3$ , 57.6% of its Se and some sublimed S. The cooled and partly purified gas is passed through an elec. filter, which completes removal of original  $SO_2$  to the extent of 99.95%,  $As_2O_3$  to 99.93%, Se to 100%; sublimed S is not removed as nearly completely as the other impurities. Complete burning of S could be insured by properly regulating the quantities of S and air in the burner. Of the S charged into the burner, 8.2-10.6% is lost, 6.2-8.4% of this could be saved if proper control instruments were installed. Per 100 tons of S there are  $As_2O_3$  400 and Se 40 kg.  $As_2O_3$  must be disposed of to prevent water pollution. The Se is recovered for use in the electrochem. industry. M. Hirsch

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION

SECOND DIVISION										THIRD DIVISION									
SUBDIVISION										SUBDIVISION									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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recovery in Cottrell precipitators and the latter is a sanitary problem created by venting these gases to the atm. The present work considers alternate methods of oxidizing these gases by combustion and by absorption in hypochlorite solids. The combustion method has the advantages of simplicity, low cost, and possibility of automatic control. The explosive nature of the digester relief gases has been an obstacle to their handling in the past, but a study of their explosive limits has made possible a method for safe handling. Relief gas is passed through spray catchers, which also serve as water seals in case of an explosion. For safe operation, blow gases must be cooled to 20° or below and diluted with not less than 50 vols. of air. This gas is then burned in a Wagner furnace. M. S.

GINODMAN, G. M.

USSR/Medicine - Industry and Occupations, Jul 48  
Hygiene  
Medicine - Hygiene and Sanitation

"Problem of Purifying Waste Gas in the Sulfate-  
Cellulose Industry," G. M. Ginodman, 32 pp

"Gig 1 San" No 7

Discloses methods of purifying waste gas in the  
sulfate-cellulose industry, and the sanitation  
and economic objectives. Describes especially  
effective method: the treatment of gas with  
alkaline substances and chlorine (or bleaching  
powder).

26/4975

~~SECRET~~

Purifying exhaust gases and ventilation air containing mercury vapors.  
(In: Russia (1923- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya  
inspektsiya. Ochistka promyshlennykh vybrosov v atmosferu. 1953, p.109-132)  
(MLRA 7:1)

1. Nauchno-issledovatel'skiy institut po promyshlennoy i sanitarnoy  
ochistke gazov Ministerstva khimicheskoy promyshlennosti.  
(Air--Purification)

GINODMAN, G.M.

~~TOP SECRET - COMINT~~

Purifying exhaust gases and ventilation air of hydrogen sulfide.  
(In: Russia (1923- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya inspektsiya. Ochistka promyshlennykh vybrosov v atmosferu. 1953, p.142-156) (MLRA 7:1)

1. Nauchno-issledovatel'skiy institut po promyshlennoy i sanitarnoy ochistke gazov Ministerstva khimicheskoy promyshlennosti.

(Air--Purification)

AUTHOR: ~~Ginodman~~, G.M.

SOV/136-58-12-8/22

TITLE: Modern Methods of Removing Mercury Vapour from Waste-gases  
Ventilation Discharges (Sovremennyye metody ochistki  
otkhodyashchikh gazov i ventilyatsionnykh vybrosov ot  
parov rtuti)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 12, pp 31 - 37 (USSR)

ABSTRACT: The author mentions that heavy losses of mercury due to its appreciable vapour pressure occur in industrial waste gases, leading to financial loss and danger to health. To avoid this, steps are being taken to reduce mercury evolution and also to make more use of methods of removing it from waste gases and ventilation air. The author describes three such methods, available to the Soviet industry, which remove more than 95% of the element from the gas to give a concentrated product which can be roasted mixed with mercury ore. The most widely used method (dry pyrolusite) is based on the ability of crushed manganese ore to absorb mercury vapour from gases at 5 - 50 °C, under 85% of relative humidity and containing less than 0.5 and 0.3 g of sulphur dioxide and dust, respectively, per m<sup>3</sup>. The reagent can be regenerated many times. The author describes an installation (Figure 1) for dealing with dusty and SO<sub>2</sub>-containing gas

Card 1/3



SOV/136-58-12-8/22

## Modern Methods of Removing Mercury Vapour from Waste-gases Ventilation Discharges

and gives operating details and some results (Table 1) obtained at a mercury works in dealing with gases at about 4 000 nm<sup>3</sup>/hour and in reagent regeneration. The author next describes the selective gaseous chlorine method: at relative moisture of the gases of 85% or less chlorine reacts selectively with mercury vapour. In the plant (Figure 2) the chlorine (0.45 kg/1 000 m<sup>3</sup> of treated gases) is added from cylinders, the mixture passing through a coke-filled vessel and then a scrubber. Good results have been obtained by this method on an experimental (Table 3) and experimental-production (capacity 7 000 nm<sup>3</sup> gases/hour) (Table 4) installations. Although the method is effective and gives products from which SO<sub>2</sub> and mercury are convenient to remove, the use of chlorine has disadvantages. Finally, the author deals with the use of activated carbons, whose preparation he has described in "Cleaning of Industrial Discharges to the Atmosphere", Medgiz., 1953. He states that only chlorinated carbon is available in sufficient quantity and that the method is limited to gases with relative

Card 2/3

SOV/136-58-12-8/22

**Modern Methods of Removing Mercury Vapour from Waste-gases Ventilation Discharges**

humidities not exceeding 75%. Layer thicknesses of 400 - 500 mm and gas velocities and temperature of 0.2 m/sec and 5-40 °C are recommended and the author describes a suitable multi-layer filter with central discharge of spent absorbent. The method is highly effective, simple and economic in manpower. The author gives some results obtained with type "BAU" activated carbon, unchlorinated and chlorinated (Table 5) showing the superiority of the latter. There are 3 figures, 5 tables and 2 Soviet references.

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AUTHORS: Ginodman, G. M., and Tokmadzhyan, G. S 15

TITLE: Gas Absorption and Regeneration of Cryolite in the  
Production of Aluminium

PERIODICAL: Tsvetnyye metally, 1960, Nr 7, pp 51-58 (USSR)

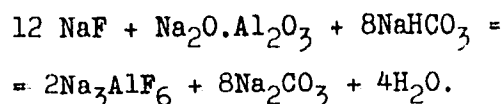
ABSTRACT: A plant for purification of waste gases, obtained during the electrolytic production of aluminium, first of this kind to be built in the Soviet Union, was erected at the Kanakerski Aluminium Plant in 1957. The present paper gives a detailed description of the construction and operation of this plant, designed to treat 1 300 000 m<sup>3</sup> of the waste gases per h. Four axial-flow pumps are used to force the waste gases through a water-jet scrubber, constructed in the form of an annulus (outside diameter 25 m, inside diameter 12 m), divided by vertical walls into four equal segments, each of which can be operated individually. The scrubber, in which a solution of soda ash is used, is operating under the following conditions: gas flow rate - 1.03 m/sec; consumption of the soda ash solution - 9.4 m<sup>3</sup>/m<sup>2</sup> h; concentration of soda ash in the solution - 4%; time

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E193/E283

## Gas Absorption and Regeneration of Cryolite in the Production of Aluminium

during which the gases are in contact with the water spray - 0.8 sec; the temperature of the gases at the entry and at the exit side of the scrubber - 65 to 75 and 24 to 29°C, respectively; relative humidity of the gases - 7 to 9 before, and 93 to 96% after passing through the scrubber. When, after being recirculated for some time, the soda ash solution becomes enriched in the NaF, NaHCO<sub>3</sub> and Na<sub>2</sub>SO<sub>4</sub>, it is diverted to the regeneration plant for recovery of cryolite. The bicarbonate method due to Labutin, Ivanov, and Morozov, is used for this purpose, cryolite being formed as a result of the following reaction:



The obtained product contains 37 - 46% F, 28 - 32% Na, 9 - 12% Al, and 5 - 9% SO<sub>4</sub>. Sulphate is removed from  
Card 2/3 this product by repulping with hot water (liquid:solid =

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Gas Absorption and Regeneration of Cryolite in the Production of  
Aluminium

10:1) and filtering, after which it contains 47.9% F, 30.4% Na, 12.2% Al, and 2.2% SO<sub>4</sub>. Preliminary calculations have shown that the purifying plant recovers up to 40 kg of fluorine and up to 900 kg of alumina per each ton of aluminium produced. Thus, in addition to its main function of preventing atmospheric pollution, the plant produces a large quantity of valuable raw material. There are 2 figures, 3 tables and 10 Soviet references.

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Testing rapid scrubbers for gas purification from chlorine.

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(Gases--Purification)

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fluorescence, review (Rus))

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"APPROVED FOR RELEASE: Thursday, September 26, 2002    CIA-RDP86-00513R000515120003-4  
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See also:

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GINZBURG

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USSR, Ukrainian and Moldavian SSR, and of some other countries  
of many scientific research institutions, and others took part also.]

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GINSBURG, A.N.

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PROCESSES AND PROPERTIES INDEX

The inhibition by acetaldehyde of oxidation reactions catalysed by pyridine proteins. A. N. Ginsburg and A. D. Gavrilova. *Biochimya* 12, 406-40 (1947). During the investigation of the biochem. mechanism of the toxic action of MeCHO (I), it was found that I inactivated many dehydrogenases, especially those contg. diphosphopyridine nucleotide (Col). The component of the dehydrogenase enzyme on which I directed its action was not the apoenzyme but the Col. I combined with 1-methyl-1,2-dihydropyridine to give 1-methyl-2-ethylidene-1,2-dihydropyridine, which could not be obtained in an analytically pure condition; *pure*,  $C_{11}H_{14}N_2O$ , m. 172-5°; *methiodide*,  $C_{11}H_{14}N_2O$ , m. 150-6°. I does not combine with Col, but does so with reduced Col ( $H_2$ -Col), the condensation taking place at the  $\alpha$ -methylene group of the pyridine ring. The product has an ultra-violet absorption max. at 300 m $\mu$ , compared to 340 m $\mu$  given by  $H_2$ -Col. The condensation product of  $H_2$ -Col with I after hydrolysis with dil. acids gives 2-ethylidene-1,3-dihydropyridine; *picolinate*,  $C_{11}H_{14}N_2O_2$ , m. 222.5-3.5°. I does not combine with the aldehyde residue of  $H_2$ -Col. The inactivation of pyridine proteins by I is due to the denaturation of their prosthetic groups. The 2-ethylidene-1,2-dihydropyridine-substituted Col is devoid of catalytic activity. H. Priestley

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ASM-5.1A METALLURGICAL LITERATURE CLASSIFICATION

ENGINEERING

STEEL

IRON

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tivation of  $H_2$ -CoI by MeI and  $Me_2SO_4$  is assumed to follow the same path as that given by II. H. Priestley

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**Abstract**

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5 (3)

AUTHORS: Gershun, G. A., Ginsburg, A. N.                      307/79-5-17/75

TITLE: Production of Some 2,4-Dinitro-phenyl Derivatives of Lysine  
and of Intermediate Products of Its Synthesis (Polucheniye  
nekotorykh 2,4-dinitrofenil'nykh proizvodnykh lizina i  
poluproduktov sinteza yego)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 5,  
pp 1554-1556 (USSR)

ABSTRACT: At present a considerable number of 2,4-dinitro-phenyl  
derivatives of amino acids is synthesized, but the data  
published on some of them are contradictory. This holds  
also for the lysine derivatives (Refs 2-9).  $\epsilon$ -N-2,4-dinitro-  
phenyl and the  $\epsilon$ -N-benzoyl derivative of lysine were obtained  
from the solution of the copper complex salt of lysine. For  
its production not the basic copper carbonate was used but the  
copper nitrate which is well soluble both in water and  
alcohol. The removal of copper from the reaction product was  
carried out (in the benzoyl derivative) by hydrochloric acid  
or (in the case of the dinitro-phenyl derivative) by  
hydrochloric acid and subsequent treatment with hydrogen

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Production of Some 2,4-Dinitro-phenyl Derivatives      SCY/79-29-5-33/75  
of Lysine and of Intermediate Products of Its Synthesis

sulfide. Thus, the difficulties in the purification which had been reported by R. Porter and F. Winger (Ref. 4) were avoided.  $\epsilon$ -N-2,4-dinitro-phenyl lysine which is difficultly soluble in water as well as its easily soluble monochlorine hydrate were formed. The monochlorine hydrate contains no crystal water so that the melting points given by other authors (Refs 4, 5, 6) can be explained by insufficient purity. Further, the authors prepared the following compounds:  $\alpha$ -N-benzoyl- $\epsilon$ -N-2,4-dinitro-phenyl lysine by benzoylation of the above-mentioned monochlorine hydrate, and  $\alpha$ -N-2,4-dinitro-phenyl- $\epsilon$ -N-benzoyl lysine by dinitro-phenylation of  $\epsilon$ -N-benzoyl lysine. The latter was obtained both from the copper complex salt of lysine and benzoyl chloride and likewise from  $\epsilon$ -caprolactam by a new method. Therefrom the chloride of  $\epsilon$ -amino caproic acid can easily be formed in good yield. It is brominated with red phosphorus and bromine, and offers a good yield of  $\epsilon$ -amino- $\alpha$ -bromo caproic acid. Therefrom the dinitro-phenylation of  $\epsilon$ -amino-caproic acid meets with no difficulties the preparation of the reaction product of the dinitro-phenylation of  $\epsilon$ -amino- $\alpha$ -bromocaproic acid in pure

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